

AMENDMENTS TO THE CLAIMS

Pursuant to 37 C.F.R. § 1.121 the following listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Original) A method of transmitting data of at least two packets to provide inter-packet interleaving, the method comprising the following steps:

inputting data of a first packet, said first packet data comprising a plurality of symbols;

inputting data of a second packet, said second packet data comprising a plurality of symbols;

utilizing a plurality of tones, each tone at a different frequency, to transmit the plurality of first packet data symbols and the plurality of second packet data symbols;

delaying the transmission of successive ones of said first packet data symbols over time; and

delaying the transmission of successive ones of said second packet data symbols over time,

such that during at least one symbol period, said tones are transmitting at least one first packet data symbol and at least one second packet data symbol.

2. (Original) The method of claim 1, wherein said plurality of tones include tones having different bit loading.

3. (Original) The method of claim 1, wherein each of said plurality of tones transmits a single data symbol during a single symbol period.

wherein a first symbol of said first packet diagonal arrangements is transmitted earlier in time with respect to a first symbol of said second packet diagonal arrangements.

12. (Original) A method of transmitting data of at least two packets to provide inter-packet interleaving, the method comprising the following steps:

inputting data of a first packet, said first packet data comprising a plurality of symbols;

inputting data of a second packet, said second packet data comprising a plurality of symbols;

utilizing a plurality of modulation codes to transmit the plurality of first packet data symbols and the plurality of second packet data symbols;

delaying the transmission of successive ones of said first packet data symbols over time; and

delaying the transmission of successive ones of said second packet data symbols over time,

such that during at least one symbol period, said modulation codes are transmitting at least one first packet data symbol and at least one second packet data symbol.

13. (Original) The method of claim 12, wherein said plurality of modulation codes comprise a set of orthogonal modulation codes.

14. (Original) The method of claim 12, wherein each of said plurality of modulation codes transmits a single data symbol during a single symbol period.

59. (Original) An apparatus for transmitting data of at least two packets to provide inter-packet interleaving, comprising:

means for inputting data of a first packet, said first packet data comprising a plurality of symbols;

means for inputting data of a second packet, said second packet data comprising a plurality of symbols;

means for utilizing a plurality of modulation codes to transmit the plurality of first packet data symbols and the plurality of second packet data symbols;

means for delaying the transmission of successive ones of said first packet data symbols over time; and

means for delaying the transmission of successive ones of said second packet data symbols over time,

such that during at least one symbol period, said codes are transmitting at least one first packet data symbol and at least one second packet data symbol.

Claims 60-68 (Cancelled)